

# BookletChart™

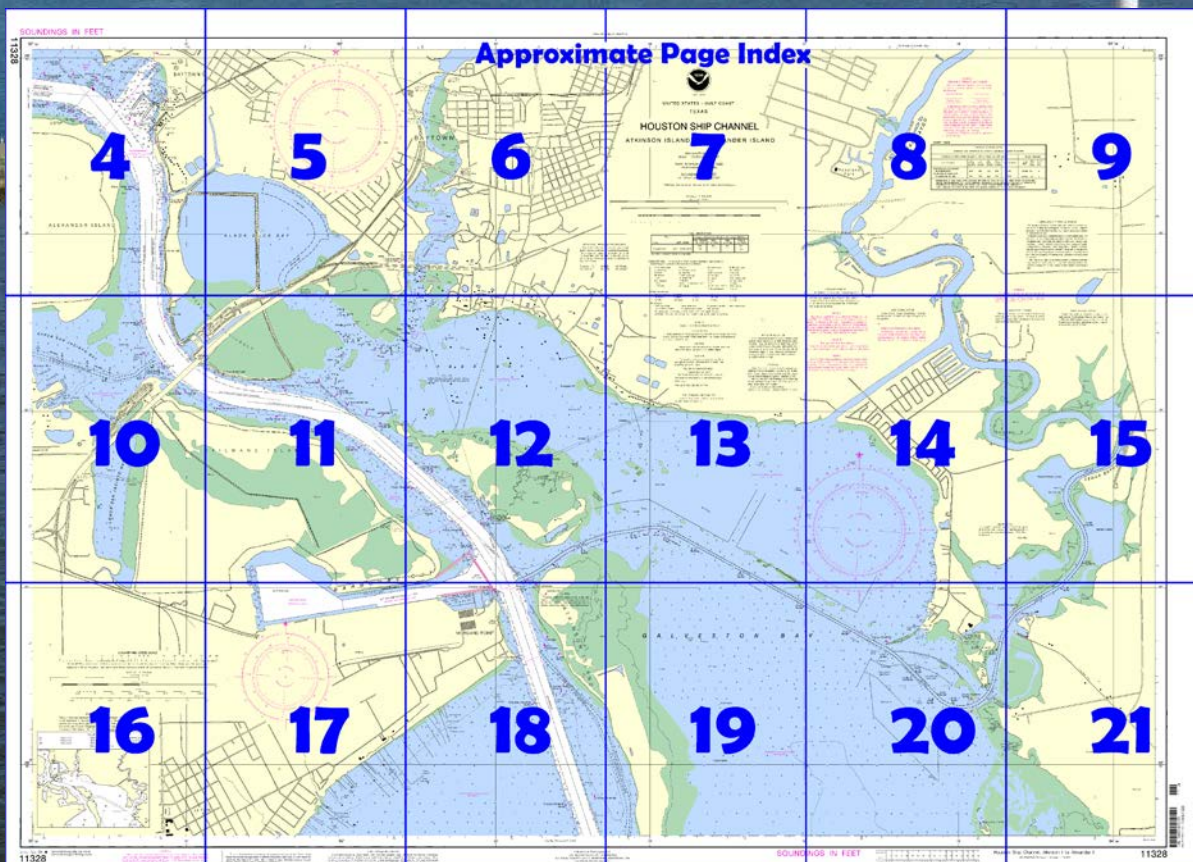
## **Houston Ship Channel Atkinson Island** **NOAA Chart 11328**



*A reduced-scale NOAA nautical chart for small boaters*  
*When possible, use the full-size NOAA chart for navigation.*



- Complete, reduced-scale nautical chart
- Print at home for free
- Convenient size
- Up-to-date with Notices to Mariners
- Compiled by NOAA's Office of Coast Survey, the nation's chartmaker



**Published by the**  
**National Oceanic and Atmospheric Administration**  
**National Ocean Service**  
**Office of Coast Survey**  
[www.NauticalCharts.NOAA.gov](http://www.NauticalCharts.NOAA.gov)  
**888-990-NOAA**

### What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

### What is a BookletChart™?

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

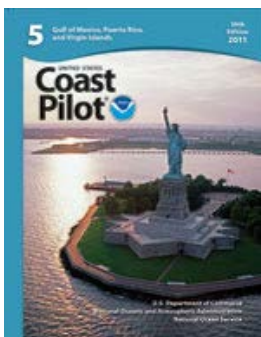
Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <http://www.NauticalCharts.NOAA.gov>.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

### Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.

For latest Coast Pilot excerpt visit the Office of Coast Survey website at <http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=11328>



#### [Coast Pilot 5, Chapter 10 excerpts]

**Galveston Bay** is a large irregularly shaped shallow body of water on the coast of Texas, about 285 miles W from Southwest Pass and 690 miles NW from Dry Tortugas. The bay is about 30 miles long in a general NNE and SSW direction, about 17 miles wide at its widest part, and has general depths of 7 to 9 feet.

A highway bridge 9.7 miles above the entrance and a railroad bridge 13.4 miles above the entrance have fixed spans with a

minimum clearance of 18 feet. In October 1982, the highway bridge was

being modified to provide a clearance of 18 feet. A highway bridge crossing a cutoff between **Boaz Island** and the mainland has a 13-foot fixed span with a clearance of 6 feet. Only very small craft use the cutoff. Shallow **Tabbs Bay** is at the NW end of Galveston Bay, and contains numerous oil well structures and overhead power cables. There are no defined channels; the average depth is reported to be less than 3 feet. A channel from Houston Ship Channel follows the W end of **Hog Island** and Tabbs Bay to **Baytown** on the N shore. **Goose Creek** is navigable for craft drawing up to 5 feet to a highway bridge 2.8 miles above the entrance. The channel, unmarked and ill-defined, runs close aboard the N shore of the island N of the W end of Hog Island and leads to Goose Creek. Private poles and markers may at times mark the preferred route. Goose Creek contains numerous oil wells, pipelines, pilings, and other hazards; local knowledge is advised. The creek is used by oil well supply and commercial fishing vessels.

The highway bridge 2.8 miles above the entrance has a 48-foot fixed span with a clearance of 9 feet. Two highway and two railroad bridges between the entrance and this bridge have fixed spans with a minimum width of 32 feet and minimum clearance of 14 feet. Overhead power cables crossing the creek between the mouth and the highway bridge 2.8 miles above the entrance have a least clearance of 36 feet.

**Barbours Cut**, opposite Hog Island, extends about 1.2 miles W from Houston Ship Channel. A privately dredged area extends W about 0.6 mile into the cut from Houston Ship Channel. A turning basin, at the head of the cut and W of the dredged area, provides excellent shelter in depths of 20 to 26 feet for vessels up to 150 feet long.

Morgans Point is on the NW end of Galveston Bay on the W side of Houston Ship Channel. **La Porte**, a town 2 miles SW of Morgans Point, has rail and highway connections with other parts of the State.

**Houston Ship Channel** extends from Galveston Harbor across Galveston Bay and through parts of San Jacinto River and Buffalo Bayou to the city of Houston, a distance of 44 miles.

N of Bolivar Peninsula, spoil banks on both sides of the channel extend N to **Red Fish Bar**. About 1.5 miles below Red Fish Bar, a narrow channel marked at the entrance by Daybeacon 1, exits Houston Ship Channel to the W, leading to Dickinson Bayou. In March 1985, the controlling depth through the spoil bank was 6 feet. Along the NE side of Houston Ship Channel N of Red Fish Bar, several openings through the spoil bank permit passage into the NE portions of Galveston Bay. One of these, **Fivemile Cut**, about 8 miles above Red Fish Bar and E of Red Bluff is dredged. In January 2002, the controlling depth was 4.2 feet (4.6 feet at midchannel). The channel is marked by buoys.

The Coast Guard advises vessels exercise particular caution where the channel intersects the Intracoastal Waterway, about 6.6 miles above the entrance jetties and just below Lighted Buoys 25 and 26. Situations resulting in collisions, groundings, and close quarters passing have been reported by both shallow and deep-draft vessels. The Coast Guard has requested vessels make a **SECURITE** call on VHF-FM channel 13 prior to crossing the Intracoastal Waterway, particularly during periods of restricted visibility.

### U.S. Coast Guard Rescue Coordination Center 24 hour Regional Contact for Emergencies

RCC New Orleans

Commander  
8<sup>th</sup> CG District (504) 589-6225  
New Orleans, LA

# Table of Selected Chart Notes

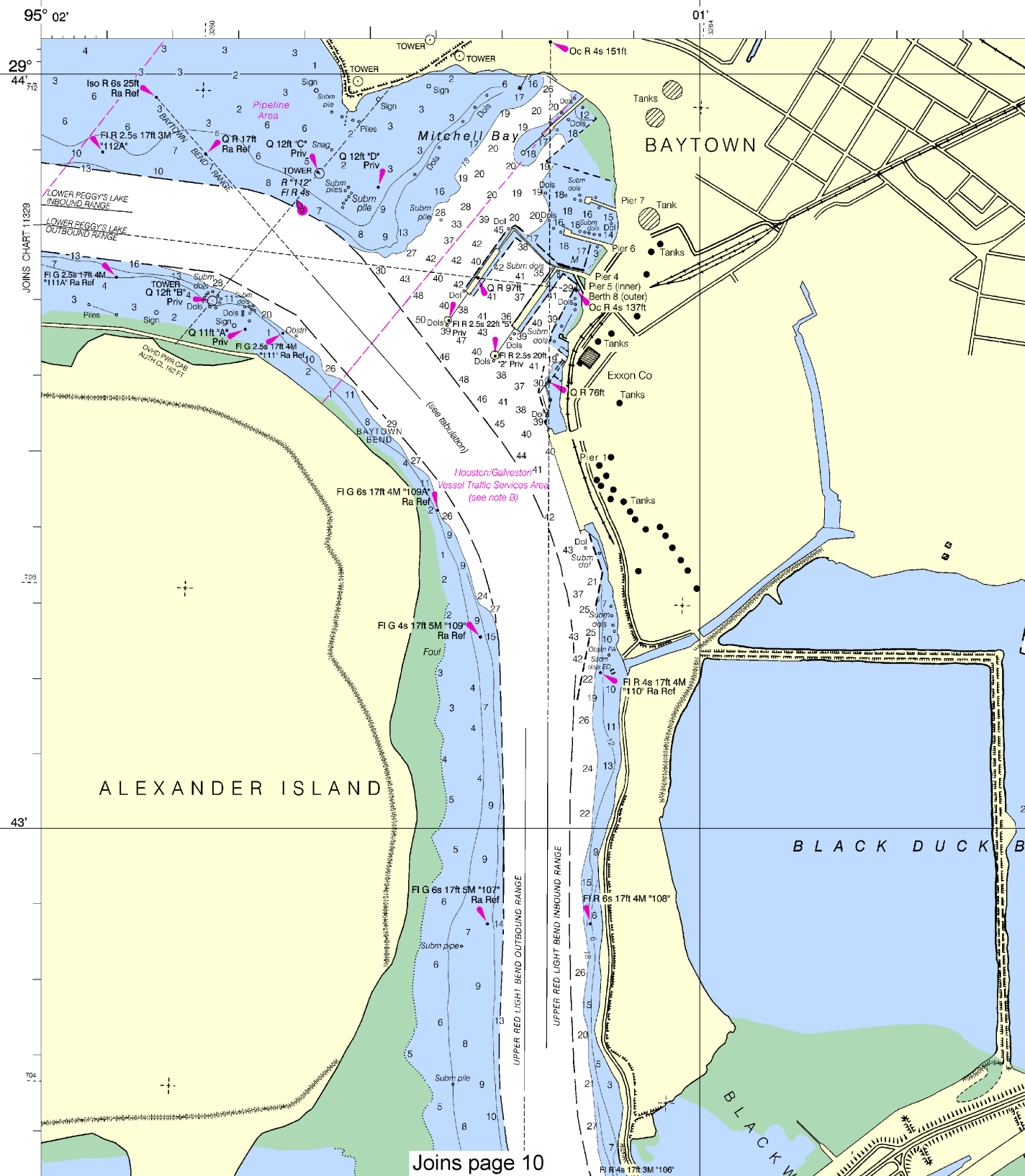
HEIGHTS  
Heights in feet above Mean High Water.

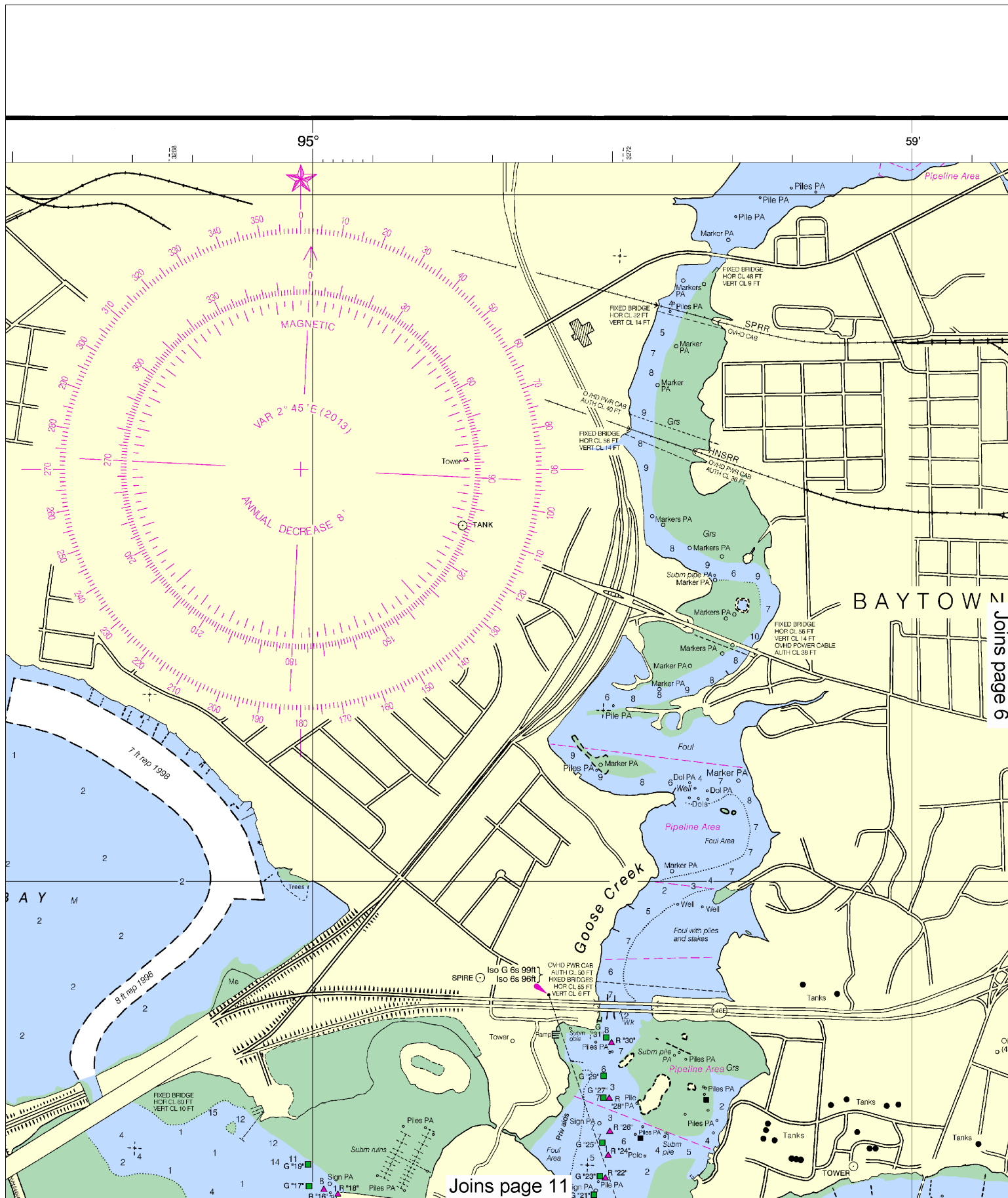
CAUTION  
Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

CAUTION  
Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

AUTHORITIES  
Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, and U.S. Coast Guard.







This BookletChart was reduced to 75% of the original chart scale.  
 The new scale is 1:13333. Barscales have also been reduced and  
 are accurate when used to measure distances in this BookletChart.

Joins page 5

Joins page 12

**NOAA WEATHER RADAR**  
The NOAA Weather Radar stations listed below provide continuous coverage. The reception range is 100 nautical miles from the antenna, or as much as 100 nautical miles at high elevations.

Galveston, TX	KHB-
Houston, TX	KGG-

# 6

Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

SCALE 1:10,000  
Nautical Miles

See Note on page 5.

A horizontal number line representing a 1200-yard race. The line starts at a point labeled 200 on the left, passes through a point labeled 0 in the middle, and ends at a point labeled 1200 on the right. Major tick marks are labeled at 200, 400, 600, 800, 1000, and 1200. The unit "Yards" is written above the line. The line is divided into segments by tick marks at 200, 400, 600, 800, 1000, and 1200. The segment from 200 to 0 is shaded with horizontal lines. The segment from 0 to 1200 is divided into six equal segments by tick marks at 200, 400, 600, 800, and 1000.





CHARTMAKER SINCE 1807

CHARTS - GULF COAST  
TEXAS

# SHIP CHANNEL TO ALEXANDER ISLAND

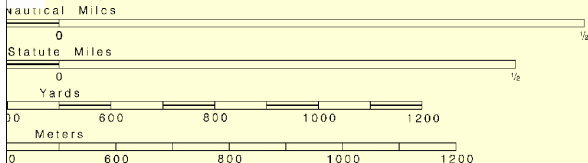
Chart Projection  
Scale 1:10,000 at Lat 29° 43'

Chart Datum of 1983  
Datum System 1984)

HEIGHTS IN FEET  
ABOVE MEAN LOW WATER

Information obtained at nauticalcharts.noaa.gov.

Scale 1:10,000



## TIDAL INFORMATION

(LAT/LONG)	Height referred to datum of soundings (MLLW)		
	Mean Higher High Water	Mean High Water	Mean Low Water
29°41'N/094°59'W	1.3 feet	1.2 feet	0.1 feet

Unavailable datum values for a tide station. Real-time water levels, available on the Internet from <http://tidesandcurrents.noaa.gov>.

Units and Abbreviations: see Chart No. 1; otherwise indicated:

d quick	Mo morse code	R TR radio tower
house	N nun	Rot rotating
le	OBSC obscured	s seconds
	Oc occulting	SEC sector
	Or orange	St M statute miles
	Q quick	VQ very quick
microwave tower	R red	W white
	Ra Ref radar reflector	WhS whistle
	R Bn radiobeacon	Y yellow

gy gray	Oys oysters	so soft
h hard	Rk rock	Sh shells
M mud	S sand	sy sticky

struction	PD position doubtful	Subm submerged
Approximate	Rep reported	
	Depth clear to the depth indicated.	
	heights in feet above datum of soundings.	

Joins page 14

ITE A

Continued in Chart 11326

**ACKNOWLEDGMENT**  
The National Ocean Service acknowledges the exceptional cooperation received from members of the Galveston Bay Power Squadron, District 21, United States Power Squadrons, in continually providing essential information for revising this chart.

## AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

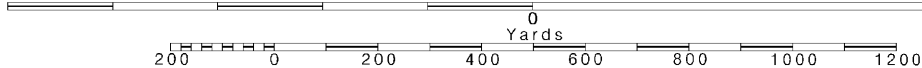
8

Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

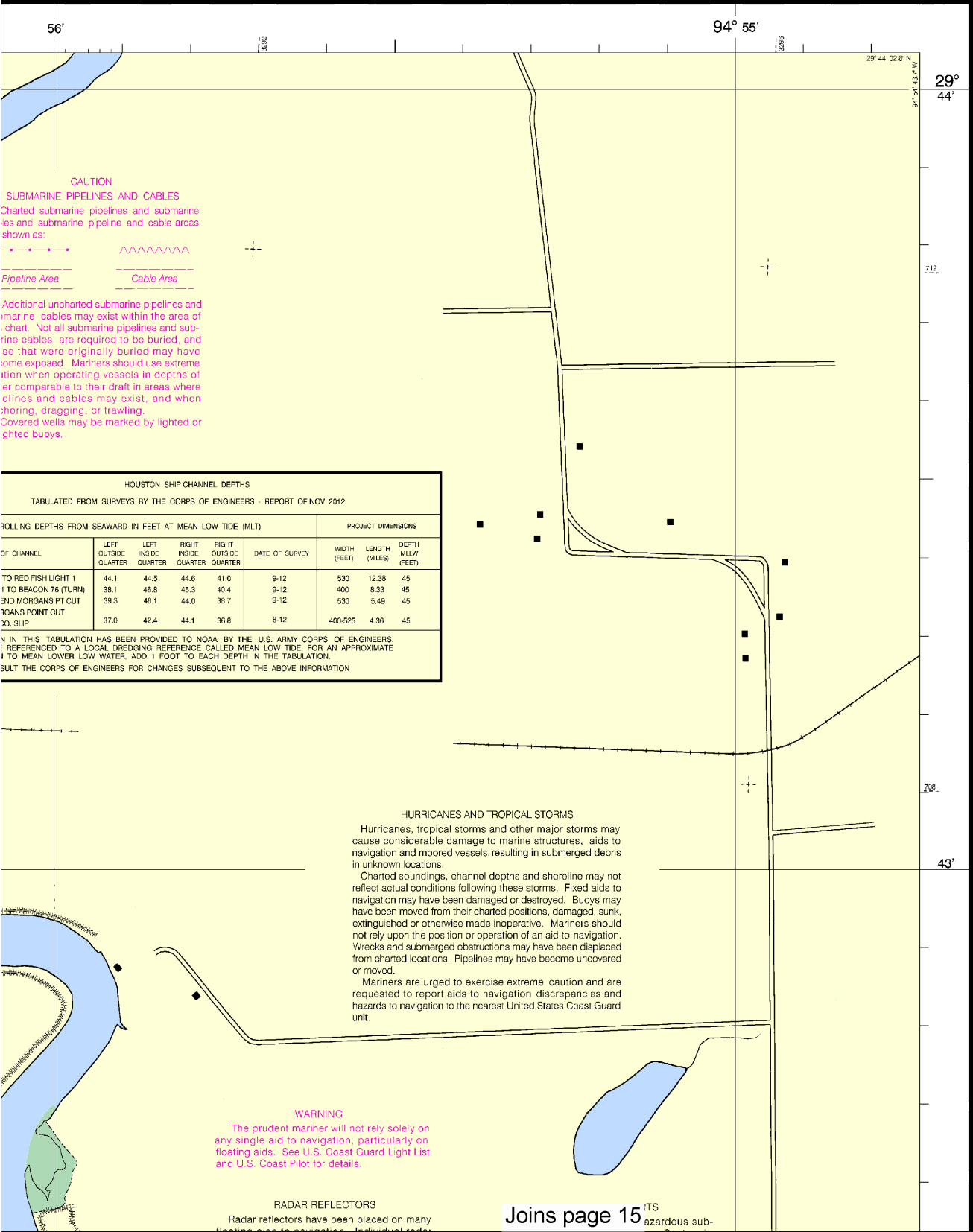
SCALE 1:10,000  
Nautical Miles

See Note on page 5.

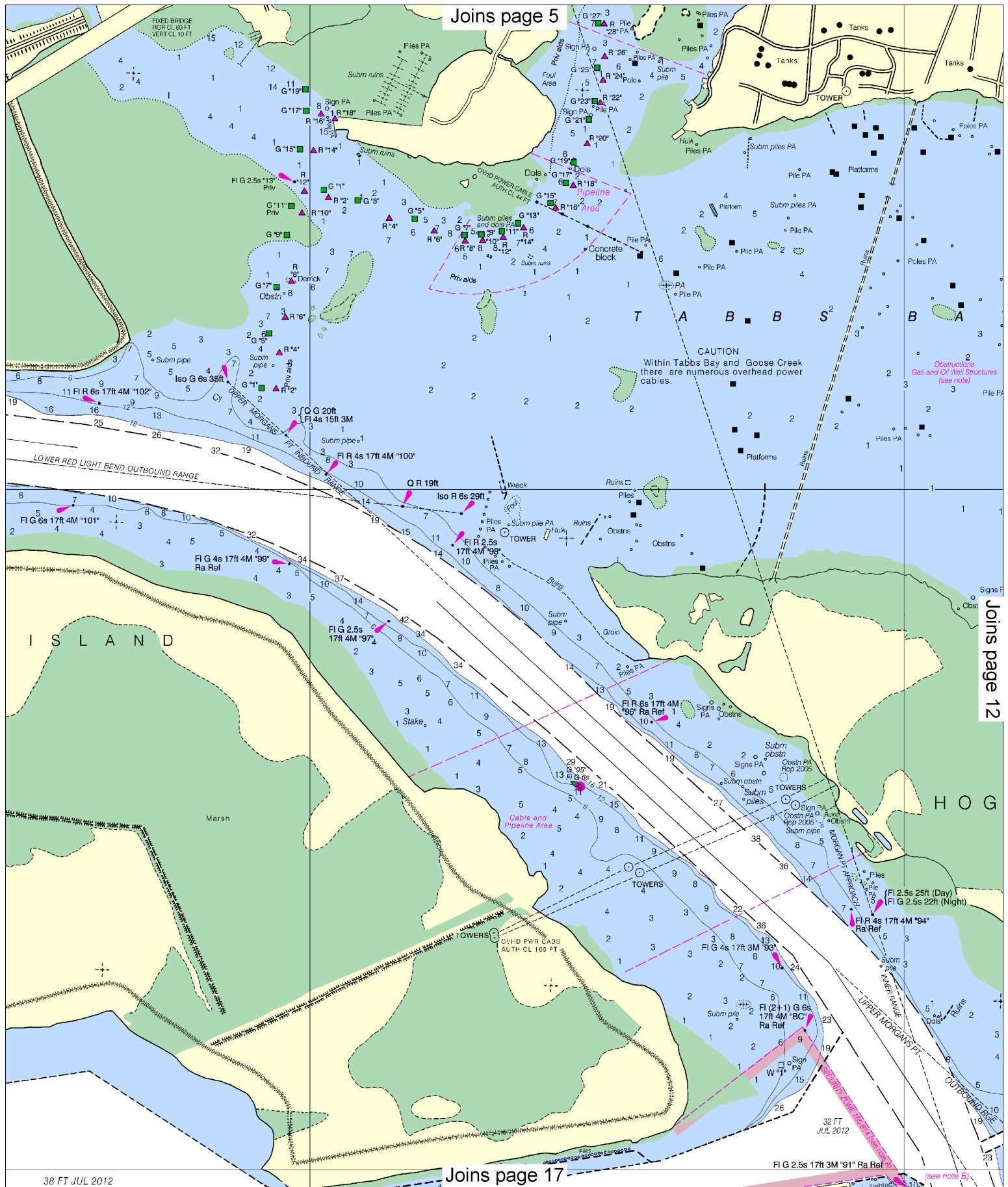




SOUNDINGS IN FEET

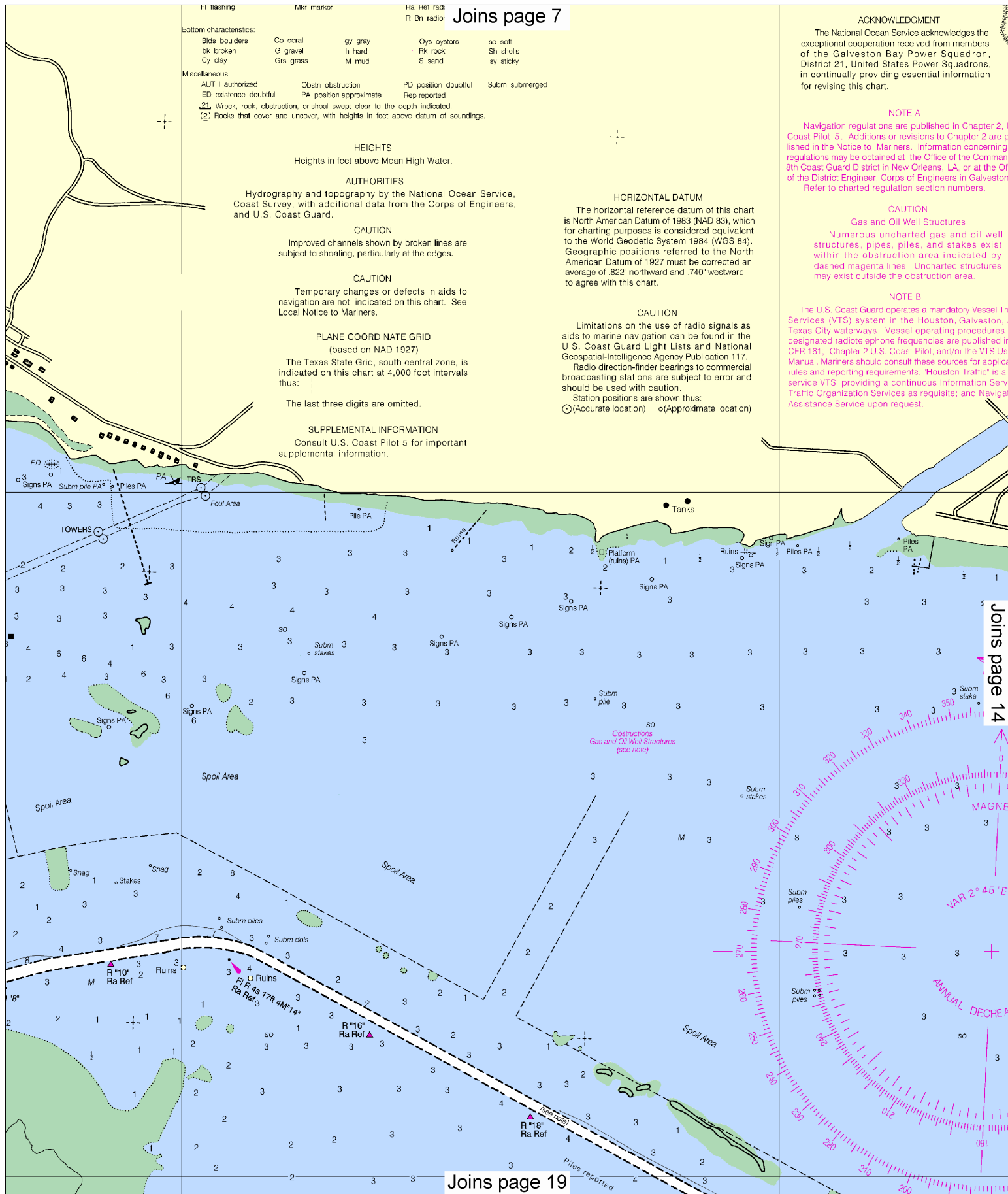












Joins page 7

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#### NOTE A

Navigation regulations are published in Chapter 2, Coast Pilot 5. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning regulations may be obtained at the Office of the Commandant, 8th Coast Guard District in New Orleans, LA, or at the Office of the District Engineer, Corps of Engineers in Galveston. Refer to charted regulation section numbers.

#### CAUTION

##### Gas and Oil Well Structures

Numerous uncharted gas and oil well structures, pipes, piles, and stakes exist within the obstruction area indicated by dashed magenta lines. Uncharted structures may exist outside the obstruction area.

#### NOTE B

The U.S. Coast Guard operates a mandatory Vessel Traffic Services (VTS) system in the Houston, Galveston, Texas City waterways. Vessel operating procedures, designated radiotelephone frequencies are published in CFR 161, Chapter 2 U.S. Coast Pilot, and/or the VTS User Manual. Mariners should consult these sources for applicable rules and reporting requirements. "Houston Traffic" is a service VTS, providing a continuous information service. Traffic Organization Services as requisite; and Navigation Assistance Service upon request.

#### HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of .822" northward and .740" westward to agree with this chart.

#### CAUTION

Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication 117.

Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

Station positions are shown thus:

○ (Accurate location) ○ (Approximate location)

#### PLANE COORDINATE GRID

(based on NAD 1927)

The Texas State Grid, south central zone, is indicated on this chart at 4,000 foot intervals thus: —+—

The last three digits are omitted.

#### SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 5 for important supplemental information.

Joins page 14

Joins page 19

Ra Ref radar reflector  
R Bn radiobeacon  
Y yellow

gy gray  
h hard  
M mud

Ovs oysters  
Rk rock  
S sand

so soft  
Sh shells  
sy sticky

struction:  
n approximate  
wept clear to the depth indicated.  
heights in feet above datum of soundings.

PD position doubtful  
Rep reported  
Subm submerged

**HEIGHTS**  
feet above Mean High Water.

**AUTHORITIES**  
topography by the National Ocean Service,  
ditional data from the Corps of Engineers.

**CAUTION**  
annels shown by broken lines are  
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## Joins page 8

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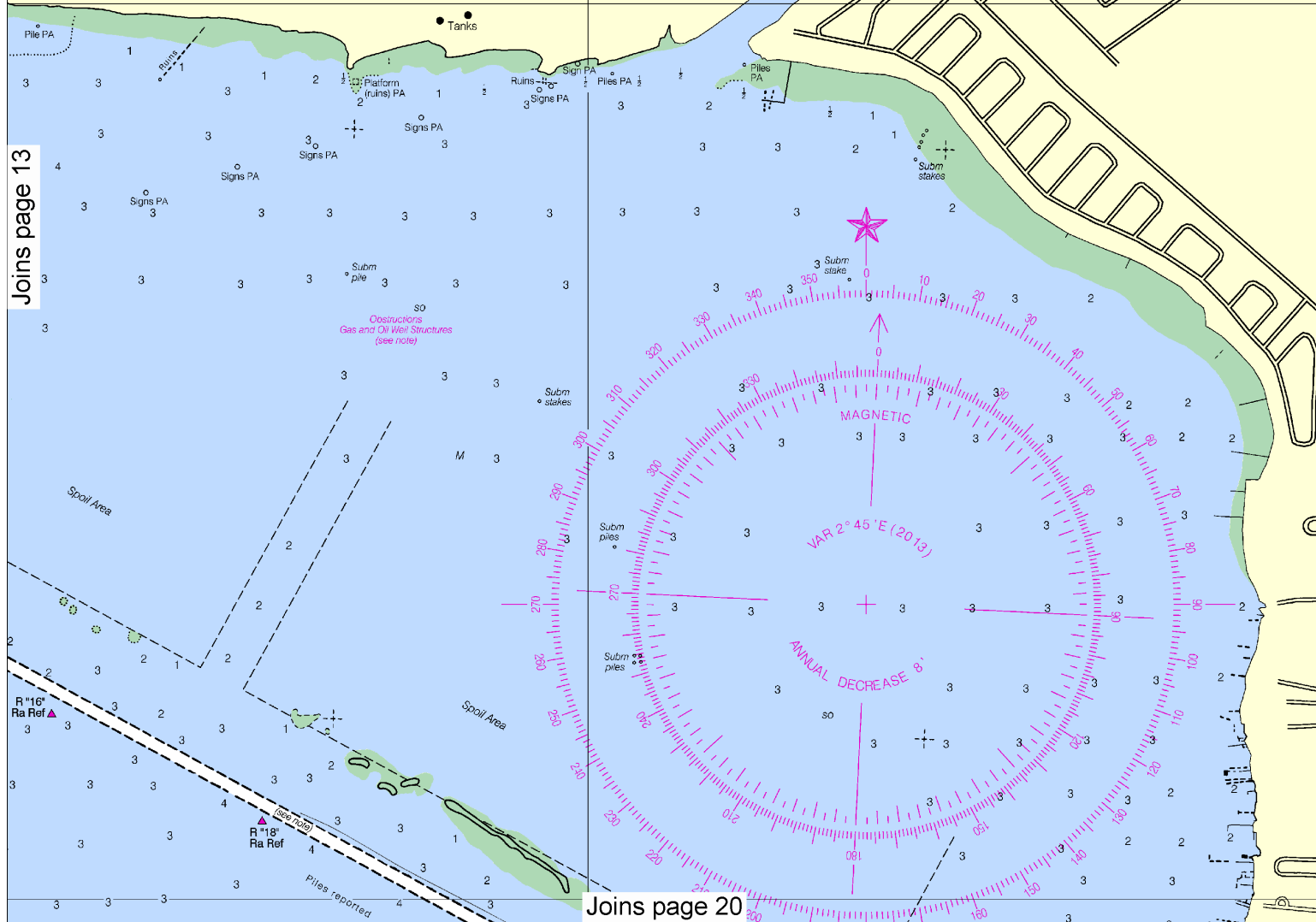
#### AIDS TO NAVIGATION

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#### SUBMARINE PIPELINES AND CABLES

Uncharted submarine pipelines and cables may exist in the vicinity of oil well structures, and between such structures and the shoreline. Mariners should use caution when anchoring.

Joins page 13



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14

Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

SCALE 1:10,000  
Nautical Miles

See Note on page 5.

0  
Yards  
200 0 200 400 600 800 1000 1200

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).



Joins page 10

41'

29° 40'

29° 40'

95° 02'

27th Ed., Jan. /13

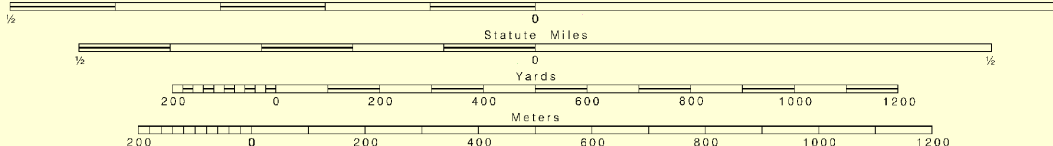
Corrected through NM Jan. 12/13  
Corrected through LNM Jan. 01/13

11328

# LOGARITHMIC SPEED SCALE

To find SPEED, place one point of dividers on distance run (in any unit) and the other on minutes run. Without changing divider spread, place right point on 60 and left point will then indicate speed in units per hour. Example: with 4.0 nautical miles run in 15 minutes, the speed is 16.0 knots.

SCALE 1:10,000  
Nautical Miles

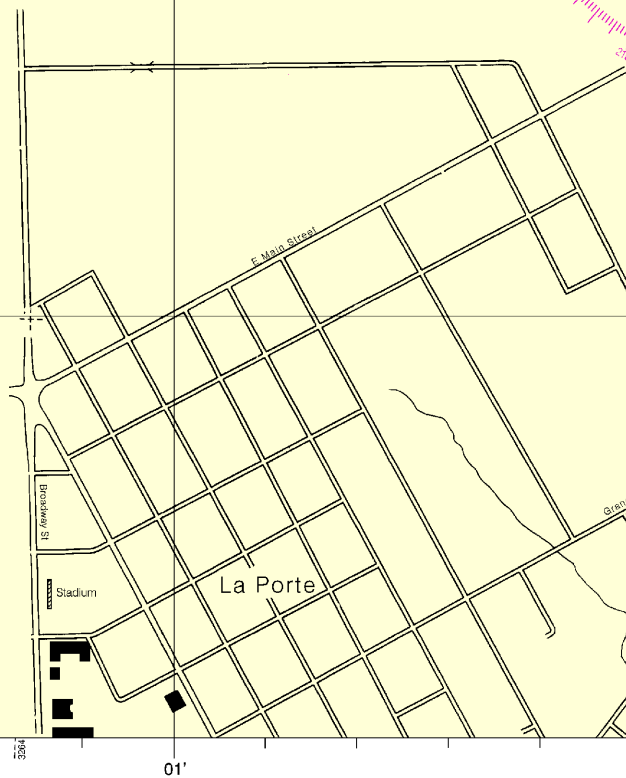
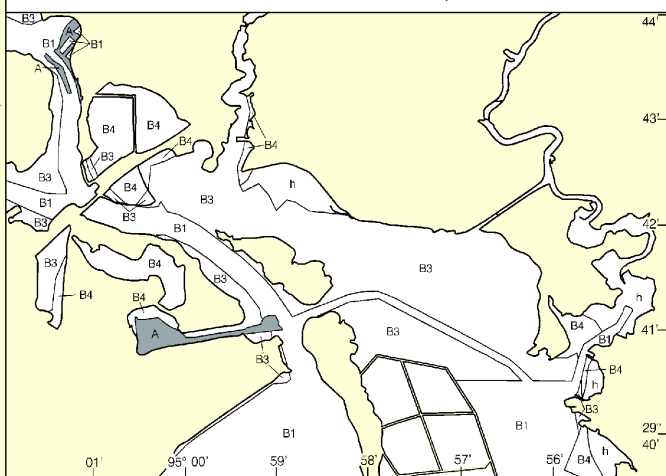


## SOURCE DIAGRAM

The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been conducted in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, *United States Coast Pilot*.

## SOURCE

A	1990-2001	NOS Surveys	Full Bottom Coverage
B1	1990-2000	NOS Surveys	Partial Bottom Coverage
B3	1940-1969	NOS Surveys	Partial Bottom Coverage
B4	1900-1939	NOS Surveys	Partial Bottom Coverage
h		Miscellaneous Surveys	



## CAUTION

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at [nauticalcharts.noaa.gov](http://nauticalcharts.noaa.gov).

This nautical chart has been designed to promote safety. The Ocean Service encourages users to submit corrections, and improving this chart to the Chief, Marine Chart Division Service, NOAA, Silver Spring, Maryland 20910-3282.

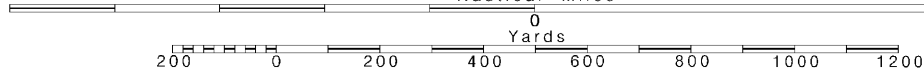
16

Note: Chart grid lines are aligned with true north.

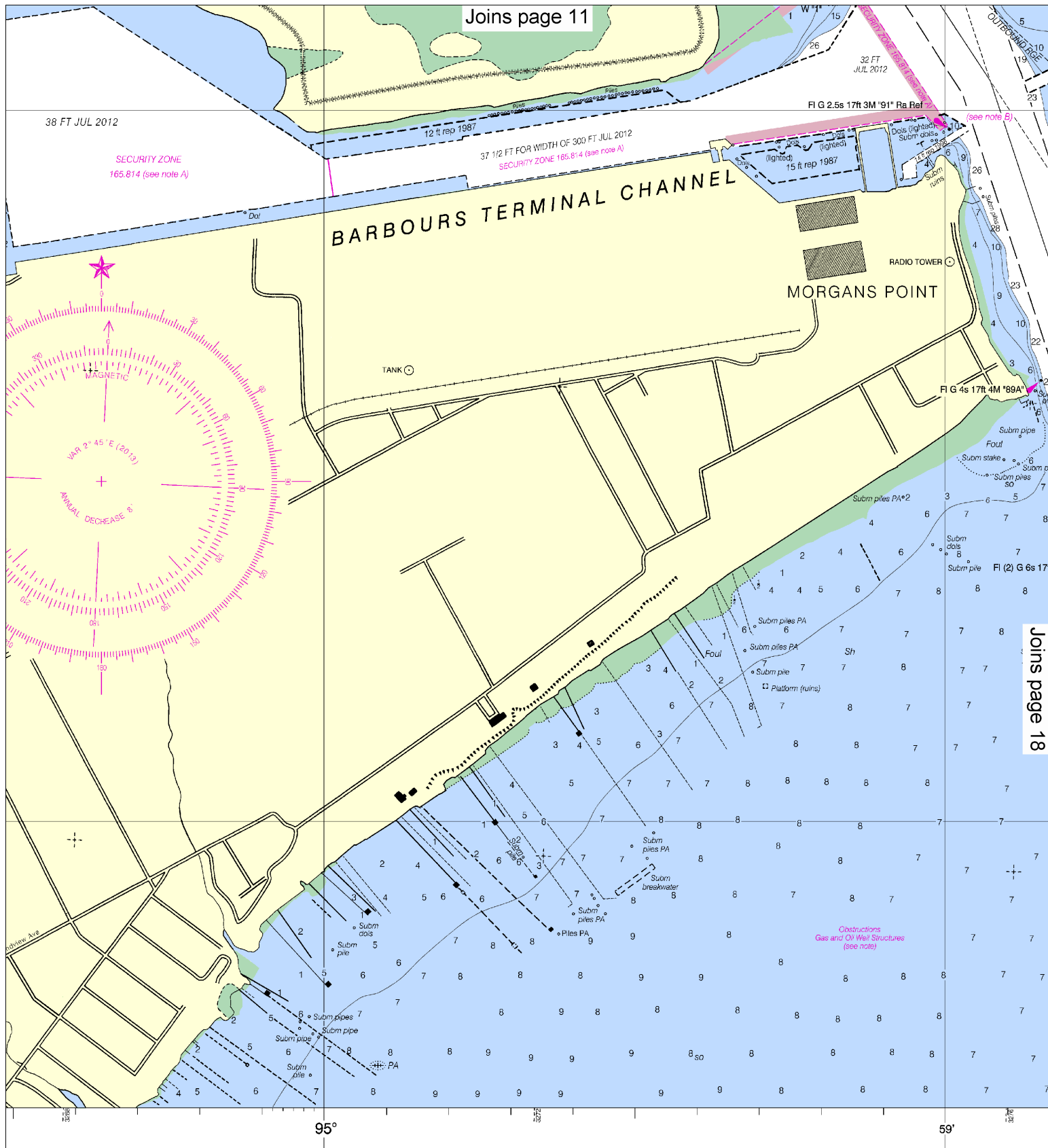
Printed at reduced scale.

SCALE 1:10,000  
Nautical Miles

See Note on page 5.



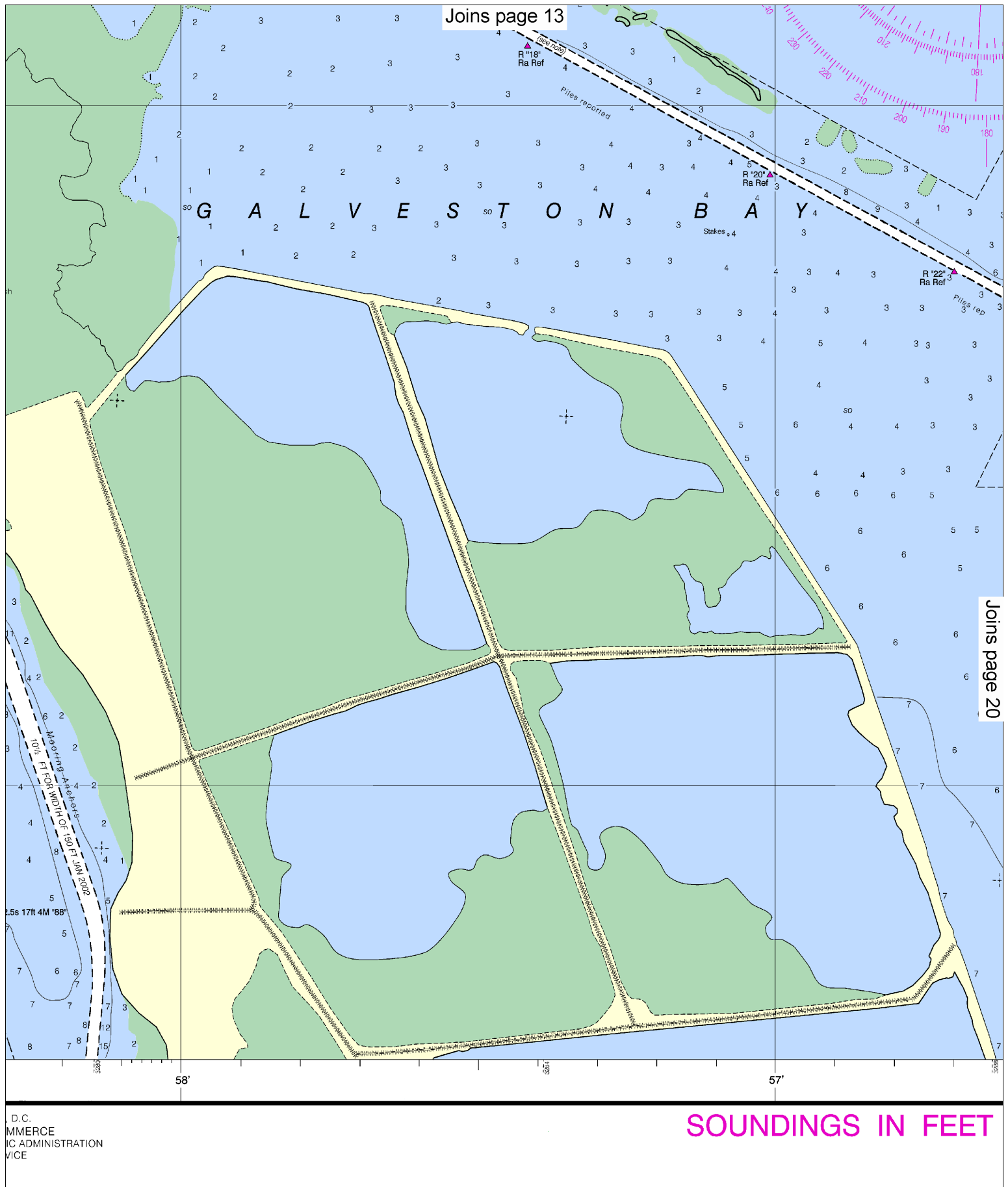




safe navigation. The National  
additions, or comments for  
on (N/CS2), National Ocean

PRINT-ON-DEMAND CHARTS  
NOAA and its partner, OceanGrafix, offer this chart updated weekly by NOAA for Notices to Mariners  
and critical corrections. Charts are printed when ordered using Print-on-Demand technology. New  
Editions are available 2-8 weeks before their release as traditional NOAA charts. Ask your chart agent  
about Print-on-Demand charts or contact NOAA at <http://ocsddata.nod.noaa.gov/lcds/inquiry.aspx>, or  
OceanGrafix at 1-877-56CHART or <http://www.oceangrafix.com>.





Joins page 13

Joins page 20

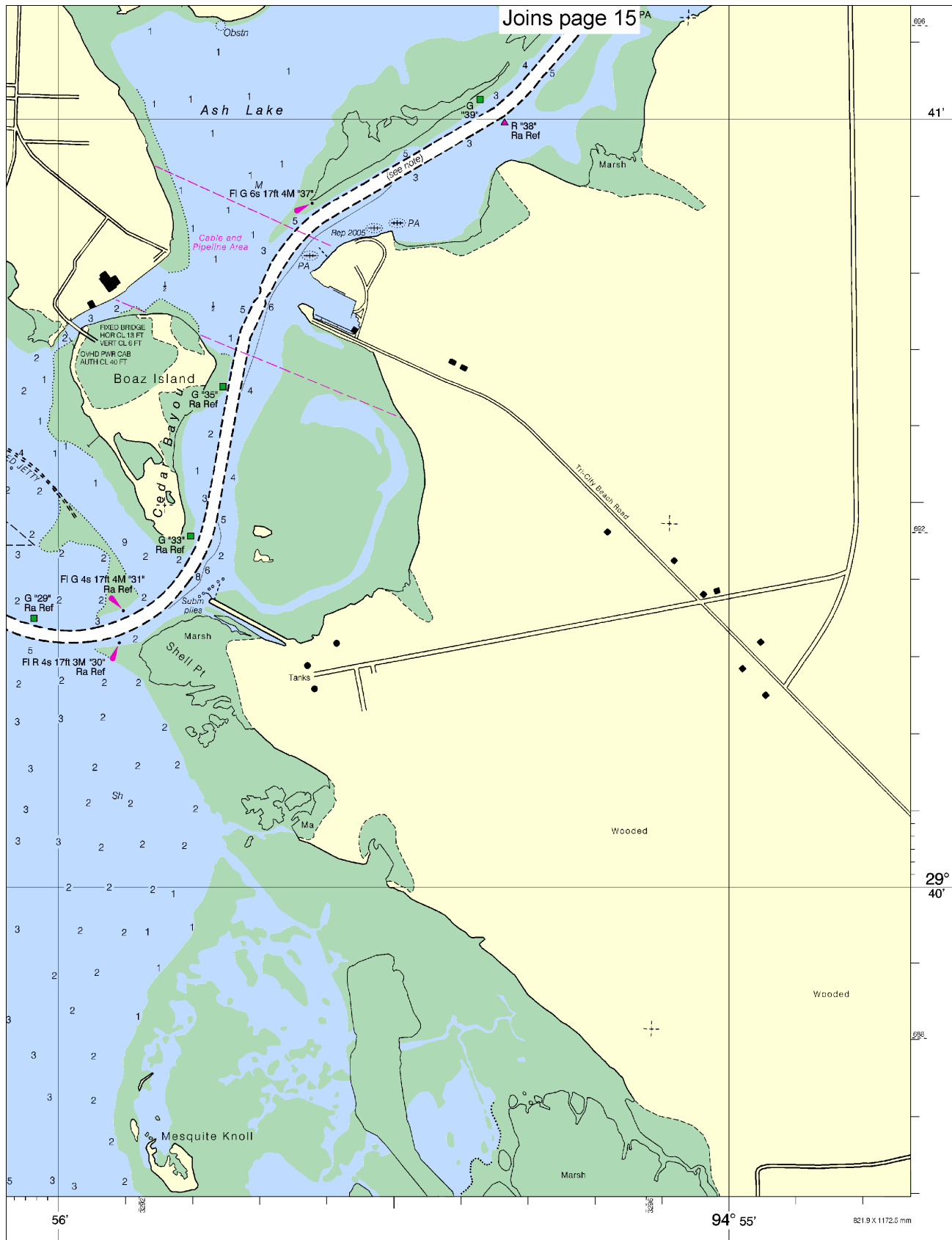
GALVESTON BAY

SOUNDINGS IN FEET

D.C.  
MMERCE  
IC ADMINISTRATION  
VICE







Joins page 15 PA

Houston Ship Channel, Atkinson I to Alexander I  
SOUNDINGS IN FEET - SCALE 1:10,000

11328



ED. NO. 27



NSN 7642014010123  
NGA REFERENCE NO. 11A-HA11328



EMERGENCY INFORMATION

## VHF Marine Radio channels for use on the waterways:

**Channel 6** – Inter-ship safety communications.

**Channel 9** – Communications between boats and ship-to-coast.

**Channel 13** – Navigation purposes at bridges, locks, and harbors.

**Channel 16** – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other

vessels. Contact the other vessel, agree to another channel, and then switch.

**Channel 22A** – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.

**Channels 68, 69, 71, 72 and 78A** – Recreational boat channels.

**Getting and Giving Help** — Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.

## Distress Call Procedures

- Make sure radio is on.
- Select Channel 16.
- Press/Hold the transmit button.
- Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
- Release transmit button.
- Wait for 10 seconds — If no response Repeat MAYDAY call.

**HAVE ALL PERSONS PUT ON LIFE JACKETS!**



**NOAA Weather Radio All Hazards (NWR)** is a nationwide network of radio stations broadcasting continuous weather information directly from the nearest National Weather Service office. NWR broadcasts official Weather Service warnings, watches, forecasts and other hazard information 24 hours a day, 7 days a week.

<http://www.nws.noaa.gov/nwr/>

## Quick References

Nautical chart related products and information	—	<a href="http://www.nauticalcharts.noaa.gov">http://www.nauticalcharts.noaa.gov</a>
Online chart viewer	—	<a href="http://www.nauticalcharts.noaa.gov/mcd/NOAAChartViewer.html">http://www.nauticalcharts.noaa.gov/mcd/NOAAChartViewer.html</a>
Report a chart discrepancy	—	<a href="http://ocsddata.ncd.noaa.gov/idrs/discrepancy.aspx">http://ocsddata.ncd.noaa.gov/idrs/discrepancy.aspx</a>
Chart and chart related inquiries and comments	—	<a href="http://ocsddata.ncd.noaa.gov/idrs/inquiry.aspx?frompage=ContactUs">http://ocsddata.ncd.noaa.gov/idrs/inquiry.aspx?frompage=ContactUs</a>
Chart updates (LNM and NM corrections)	—	<a href="http://www.nauticalcharts.noaa.gov/mcd/updates/LNM_NM.html">http://www.nauticalcharts.noaa.gov/mcd/updates/LNM_NM.html</a>
Coast Pilot online	—	<a href="http://www.nauticalcharts.noaa.gov/nsd/cpdownload.htm">http://www.nauticalcharts.noaa.gov/nsd/cpdownload.htm</a>
Tides and Currents	—	<a href="http://tidesandcurrents.noaa.gov">http://tidesandcurrents.noaa.gov</a>
Marine Forecasts	—	<a href="http://www.nws.noaa.gov/om/marine/home.htm">http://www.nws.noaa.gov/om/marine/home.htm</a>
National Data Buoy Center	—	<a href="http://www.ndbc.noaa.gov/">http://www.ndbc.noaa.gov/</a>
NowCoast web portal for coastal conditions	—	<a href="http://www.nowcoast.noaa.gov/">http://www.nowcoast.noaa.gov/</a>
National Weather Service	—	<a href="http://www.weather.gov/">http://www.weather.gov/</a>
National Hurricane Center	—	<a href="http://www.nhc.noaa.gov/">http://www.nhc.noaa.gov/</a>
Pacific Tsunami Warning Center	—	<a href="http://ptwc.weather.gov/">http://ptwc.weather.gov/</a>
Contact Us	—	<a href="http://www.nauticalcharts.noaa.gov/staff/contact.htm">http://www.nauticalcharts.noaa.gov/staff/contact.htm</a>



— For the latest news from Coast Survey, follow @nauticalcharts



This Booklet chart has been designed for duplex printing (printed on front and back of one sheet). If a duplex option is not available on your printer, you may print each sheet and arrange them back-to-back to allow for the proper layout when viewing.

NOAA's Office of Coast Survey



The Nation's Chartmaker